

Title (en)
Coating methods and a coated substrate

Title (de)
Beschichtungsverfahren und beschichtetes Substrat

Title (fr)
Procédés de revêtement et substrat revêtu

Publication
EP 2913420 A3 20151104 (EN)

Application
EP 14195911 A 20141202

Priority
US 201314098599 A 20131206

Abstract (en)
[origin: US2015159254A1] Coating methods and a coated substrate are provided. The coating method includes providing a component having an aperture formed in a surface thereof, arranging and disposing a hollow member on a portion of the surface to define a hollow space above the aperture corresponding to a shape of the aperture at the surface, applying at least one coating over the surface of the component and the hollow member to form an applied coating having an applied coating thickness, and removing at least a portion of the hollow member to expose the hollow space through the applied coating. The coated substrate includes a component having an aperture formed in a surface thereof, a hollow member arranged and disposed on the surface to define a hollow space above the aperture, and an applied coating over the surface of the component, the hollow space being exposed through the applied coating.

IPC 8 full level
C23C 4/00 (2006.01); **C23C 4/18** (2006.01); **C23C 14/04** (2006.01); **C23C 14/58** (2006.01)

CPC (source: EP US)
B05D 1/32 (2013.01 - US); **C23C 4/01** (2016.01 - EP US); **C23C 4/134** (2016.01 - US); **C23C 4/18** (2013.01 - EP US); **C23C 14/044** (2013.01 - EP US); **C23C 14/588** (2013.01 - EP US); **B23P 2700/06** (2013.01 - EP); **Y02T 50/60** (2013.01 - US); **Y10T 428/24322** (2015.01 - EP US)

Citation (search report)

- [XAYI] EP 2423346 A1 20120229 - UNITED TECHNOLOGIES CORP [US]
- [XA] US 2013206739 A1 20130815 - REED GORDON MILLER [US], et al
- [X] US 3951701 A 19760420 - CSILLAG ANDREAS
- [Y] US 6234755 B1 20010522 - BUNKER RONALD SCOTT [US], et al
- [A] US 5985122 A 19991116 - CONNER JEFFREY A [US]
- [A] US 2004058070 A1 20040325 - TAKEUCHI JUN [JP], et al

Cited by
EP3888822A1; US11767570B2; EP3170801B1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 2015159254 A1 20150611; **US 9551058 B2 20170124**; CN 104689958 A 20150610; EP 2913420 A2 20150902; EP 2913420 A3 20151104; EP 2913420 B1 20171018

DOCDB simple family (application)
US 201314098599 A 20131206; CN 201410731306 A 20141205; EP 14195911 A 20141202